

LISTING OF PENDING CLAIMS

1-2. (Cancelled)

3. (Previously Presented) A device for implementing a high efficiency method of scooping-up slag from liquid iron, comprising:

 a flatcar track (8),
 a flatcar (7) which reciprocates along the flatcar track (8), and
 a cantilever (4) which is connected to the flatcar (7) by means of a hoisting main shaft (5),

 a rack (10) fitted in a drive case (2) at a front end of the cantilever (4), two gears (11) engaged with the rack (10) on two sides thereof,

 wherein the two gears (11) are fixed to rear ends of two slag rakes (1) by means of two rotating shafts (3), and

 wherein the two slag rakes (1) are adapted to swing toward each other in order to clamp and scoop-up the slag.

4. (Previously Presented) A device for implementing a high efficiency method of slag scooping-up from liquid iron according to claim 3, further comprising:

 an oil cylinder (9) connected to a rear end of the rack (10), the oil cylinder (9) being adapted to move the rack (10) forward or backward.

5. (Previously Presented) A device for implementing a high efficiency method of slag scooping-up from liquid iron according to claim 3, wherein the flatcar (7) is driven by a motor to move along the flatcar track (8).

6. (Previously Presented) A device for implementing a high efficiency method of slag scooping-up from liquid iron according to claim 3, wherein the flatcar (7) is driven by hydraulic power to move along the flatcar track (8).

7. (Previously Presented) A device for implementing a high efficiency method of slag scooping-up from liquid iron according to claim 3, wherein one side of each of the two slag rakes (1) which gathers and clamps the slag has a saw-tooth shape.

8. (Cancelled)

9. (Previously Presented) A device for implementing a high efficiency method of slag scooping-up from liquid iron according to claim 3, wherein the cantilever is a hydraulic driven-type cantilever.